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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/816,939	04/05/2004	Fred Buchali	Q80563	3035	
	72875 7590 09/29/2008 SUGHRUE MION, PLLC			EXAMINER	
2100 Pennsylva	nia Avenue, N.W.	TRAN, DZUNG D			
Washington, DC 20037			ART UNIT	PAPER NUMBER	
			2613		
			NOTIFICATION DATE	DELIVERY MODE	
			09/29/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/816,939	BUCHALI, FRED	
Office Action Summary	Examiner	Art Unit	
	Dzung D. Tran	2613	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>09</u> .	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1 and 3-8 is/are pending in the appli 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 3-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin	awn from consideration. for election requirement. ner.	Evaminar	
10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a lis	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

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DETAILED ACTION

Specification

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "a computer readable medium" and it connection with the present invention apparatus must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claim 8 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 8 claimed "a computer readable medium encoded with a computer program for generating a clock signal out of an electrical data signal". However, the specification and drawing do not provide any specific detail to teach "a computer readable medium encoded with a computer program for generating a clock signal out of an electrical data signal" and how a computer readable medium encoded with a computer program generates a clock signal, specially the connection between the computer readable medium and the present invention apparatus. Without such detail description, the disclosure does not enable a person of ordinary to made and use the claimed invention.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pathak et al. US 7,158,727 in view of LaGasse et al. US Publication no. 2003/0020985.

Regarding claim 1, Pathak discloses in Figure 1, a receiver device for optical data signals, in particular optical data signal in the Gb/s range, comprising:

an opto-electrical conversion unit 101, which converts an optical signal, that is received fro a source external to said receiver device, to a converted electric data signal, that is received from a source external to said receiver device, to a converted electrical data signal;

a frequency multiplicator unit 108, which frequency-multiplies the converted electrical data signal; and

a clock recovery unit 103;

wherein the frequency multiplicator unit 108 performs a frequency multiplication by a factor of n, with n being a natural number larger than 2 (i.e., n = 4).

wherein the receiver device comprises a frequency filter for the spectral power of the electrical data signal, and wherein the frequency filter transmits around B/n, wherein B

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is the bit rate of the electrical data signal (i.e., the 1:4 demultiplexer filtering or separating the clock signal 110 from 1-Bit stream data signal).

Pathak does not specifically disclose wherein the clock recovery unit 103 comprising a phased locked loop circuit. LaGasse, from the same field of endeavor, discloses in Figure 3 a clock recovery unit 150 comprising a phased locked loop circuit 154 (see Paragraph 0064). At the time of the invention was made, it would have been obvious to an artisan to replace the clock recovery unit 103 of Pathak with the well known clock recovery unit 150 that comprising a phased locked loop circuit 154 taught by LaGasse. One of ordinary skill in the art would have been motivated to do that in order to generate a clock signal that is synchronized to the data signal.

Regarding claim 3, Pathak discloses in Figure 1, wherein n = 4.

Regarding claim 4, Pathak discloses the optical data signal are 10 Gb/s or 40 Gb/s signal (col. 2, Table 1; col. 5, lines 35-52).

Regarding claim 5, Pathak discloses the clock recovery unit comprises a phase locked loop circuit (col. 5, lines 58-67).

Regarding claim 7, Pathak discloses the data transmission system comprises an optical transmission link 100, wherein transmission link has a significant dispersion (it is inherently that dispersion occurs in the optical fiber system).

Regarding claim 8, Pathak discloses a processor (see figure 2).

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Response to Arguments

6. Applicant's arguments with respect to claims 1, 3-8 have been considered but are

moot in view of the new ground(s) of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dzung Tran whose telephone number is (571) 272-

3025.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Supervisor, Jason Chan, can be reached on (571) 272-3022.

The fax phone number for the organization where this application or proceeding

is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

3900.

Dzung Tran

08/31/2008

/Dzung D Tran/

Primary Examiner, Art Unit 2613

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